

t21_finseq_3
(TMUUJbRwgqzt6ha26mYyyA2CY3tQfkarJty)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $np_1 : \iota$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (k5_card_1 (k2_finseq_1 X0) = X0) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \neq X1) \Rightarrow (k5_card_1 (k2_tarski X0 X1) = np_2) \quad (2)$$

Assume the following.

$$(k2_finseq_1 np_1 = k1_tarski np_1) \wedge (k2_finseq_1 np_2 = k2_tarski np_1 np_2) \quad (3)$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.(v7_ordinal1 X2) \Rightarrow ((k2_finseq_1 X2 = k2_tarski X0 X1) \Rightarrow ((X0 = X1) \vee ((X2 = np_2) \wedge (k2_tarski X0 X1 = k2_tarski np_1 np_2))))$$